Ministry of
Natural Resources
Peterborough District Office
300 Water Street
1st Floor, South Tower
Peterborough, Ontario K9J 8M5

Ministère des
Richesses naturelles

Telephone: (705) 755-2001
Facsimile: (705) 755-3125

Ontario

June 18, 2013

Canadian Solar Inc.
545 Speedvale Avenue West
Guelph, ON
N1K 1E6

Dear Ms. Pasceri:

Re: Permit PT-C-008-13Issued Under s.17 (2)(c) of the *Endangered Species Act*, 2007

Enclosed you will find a signed original copy of permit PT-C-008-13 (the "Permit"), issued under s.17(2)(c) of the *Endangered Species Act*, 2007 for the Glenarm Solar Power Project.

Please read the Permit and all attached schedules carefully prior to initiating the project. All work must be carried out in accordance with the conditions and schedules of the Permit. In particular, please note that the Permit is in effect until decommissioning of the sites is completed in accordance with the renewable energy approvals under Part V.0.1 of the *Environmental Protection Act.* You will be required to submit annual reports, summarizing your activities, by December 31st of each calendar year. In addition, please note that a copy of the Permit must be onsite throughout the life of the Permit.

Should any of the project parameters change, or if it is not possible to comply with the Permit conditions, please contact Kate Pitt, Peterborough District Office Species at Risk Biologist at (705) 755-3104 immediately to obtain advice. Additionally, if any protected species other than those identified within the Permit are observed during the undertaking of the project, please notify the MNR Peterborough District office immediately.

Please be advised that it is also your responsibility to be aware of and comply with all other relevant required approvals.

Sincerely,

Karen Bellamy, District Manager
MNR Peterborough District Office

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PERMIT UNDER CLAUSE 17(2) (c) of
THE ENDANGERED SPECIES ACT, 2007

Permit #: PT-C-008-13

Issued to: 2172838 Ontario Corp. as the general partner of Glenarm LP ("**Glenarm**"), 545 Speedvale Avenue West, Guelph ON N1K 1E6.

Location: Part Lots 11 and 12 Concession 6, Eldon Township, City of Kawartha Lakes identified as the Subject Parcels in Appendix A ("the Site").

Term: This permit comes into force on the date it is issued and expires following the decommissioning of the solar panels and the restoration of the Site.

1. **Authority.** This permit is issued to Glenarm, under clause 17(2)(c) of the *Endangered Species Act, 2007*.

2. **Application to Species.** This permit applies to Eastern Meadowlark (*Sturnella magna*), and Bobolink (*Dolichonyx oryzivorus*), both of which are listed as threatened on the Species at Risk in Ontario List.

3. **Authorization.** This permit authorizes Glenarm to engage in the activities specified herein that would otherwise be prohibited by section 10 of the *Endangered Species Act, 2007* in relation to Eastern Meadowlark and Bobolink.

4. **Application of Authorization.** This permit authorizes Glenarm to damage and destroy up to 32 hectares of Eastern Meadowlark and Bobolink habitat on the Site as necessary to construct and install the 10-megawatt solar photovoltaic facility referred to as Canadian Solar - Glenarm, the activities necessary to restore the Site to pre-development condition and to fulfill the conditions of this permit.

5. **Conditions.** The activities authorized by this permit are subject to all the conditions specified herein.

6. **Definitions.** In this permit, the following words shall have the following meanings:

   "Measures" means the measures required by section 8 of this permit to contribute to an overall benefit to Eastern Meadowlark and Bobolink;

   "MNR" means the Peterborough District Office of the Ministry of Natural Resources;

   "Qualified Professional" means a person with particular expertise who is trained or qualified in a specific area relevant to the tasks to be performed;

"Species at Risk in Ontario List" means Ontario Regulation 230/08 (Species at Risk in Ontario List) made under the *Endangered Species Act, 2007*;

"Works" means the activities necessary to construct and install the 10-megawatt solar photovoltaic facility referred to as Canadian Solar - Glenarm on the Site.

7. **Appendices.** The following appendices form part of this permit:
   - Appendix A – Canadian Solar - Glenarm Project Location Map.

8. **Measures.** Glenarm shall establish and manage habitat for Eastern Meadowlark and Bobolink in accordance with the following:

   (a) Glenarm shall establish an area as Eastern Meadowlark and Bobolink habitat (the "Overall Benefit Area") to provide optimal conditions to support breeding and foraging for Eastern Meadowlark and Bobolink as follows:

   i. The Overall Benefit Area shall consist of an area of land that is at least 32 hectares, unless a smaller area is approved by the MNR on the sole basis that Glenarm has provided evidence that is sufficient to the MNR that the amount of habitat that will be damaged or destroyed on the Site will be less than 32 hectares. In such a case, MNR may approve an Overall Benefit Area that is no less than the amount of habitat that was damaged or destroyed. In the event that MNR approves an Overall Benefit Area that is smaller than 32 hectares, Glenarm shall not damage or destroy the habitat of Bobolink or Eastern Meadowlark in an amount that exceeds the size of the Overall Benefit Area.

   ii. Glenarm shall obtain approval from the MNR on any changes to the size of the Overall Benefit Area shall no later than three (3) months following the start of construction on the Site.

   iii. The location of the Overall Benefit Area shall be within the 142 hectares of contiguous grassland on the Site.

   iv. Glenarm shall establish the Overall Benefit Area for Eastern Meadowlark and Bobolink using a seed mixture that:

      - contains 50-75% grasses with the remainder of the mixture consisting of forbs;
      - consists of less than 25% alfalfa forb; and
      - contains a mixture of tall (>50cm) and short (<50cm) grasses with a minimum of 3 grass species.

   v. at least 25% of the Overall Benefit Area shall be located at least 100 metres away from the edge of the habitat, such as roads and forests.

   vi. Glenarm shall establish the Overall Benefit Area in accordance with this condition prior to April 15, 2014.

(b) Glenarm shall manage the Overall Benefit Area for use by Eastern Meadowlark and Bobolink until the cessation of operations and decommissioning of the solar panels on the Site as follows:

i. The Overall Benefit Area shall be managed as grassland to be mowed once every 3 to 5 years between August 1 and September 30.

ii. Any reseeding, vegetation cutting or removal or other maintenance in the Overall Benefit Area that could impact Eastern Meadowlark or Bobolink shall take place between August 1 and April 15.

9. **Implementation.** Glenarm shall begin implementation of the Measures as soon as weather conditions permit after the permit is in effect.

10. **General.** Glenarm shall carry out the Works and Measures in accordance with the following conditions:

(a) All Works shall occur in the period starting August 1 and ending on April 15.

(b) Width of access roads shall be kept to the minimum size feasible.

(c) Access roads shall be installed along existing hedgerows or fencerows wherever possible.

(d) The boundaries of work areas shall be clearly delineated to ensure habitat destruction beyond the Site does not occur.

(e) Areas of short term disturbance (i.e. electrical trenching, lay-down area) shall be restored immediately following construction. Restoration will involve removal of geotextile and aggregate, followed by reseeding to grass using a seed mixture approved by the MNR, as described in section 8 of this permit. Areas of long term disturbance (i.e. access roads, transformers, and panel bases) will be restored using similar techniques, following the decommissioning of the Site.

(f) Glenarm shall retain one or more Qualified Professional(s) to carry out the activities in sections 8, 10, 11, and 12 of this permit.

(g) A copy of this permit shall be kept on the Site at all times when activities authorized by this permit are being conducted along with any approval provided by the MNR under sub-clause 8(a)(i) of this permit.

11. **Eastern Meadowlark and Bobolink Habitat Monitoring.** Glenarm shall monitor the use of habitat by Eastern Meadowlark and Bobolink in the Overall Benefit Area for five years beginning in 2014 as follows:

(a) Three (3) Eastern Meadowlark and Bobolink surveys shall occur at least one week apart, between June 1 and the first week of July, starting 30 minutes after dawn and continuing no later than 9 am as follows:

i. Eastern Meadowlark and Bobolink surveys shall consist of point counts in accordance with *Survey Methodology under the Endangered Species Act, 2007: Dolichonyx oryzivorus (Bobolink)*, produced by the Ministry of Natural

Resources, Policy Division, Species at Risk Branch, version dated April 7, 2011, as it may be amended from time to time;

ii. the number and location of point counts shall allow a comprehensive survey of the entire Overall Benefit Area; and,

iii. during each survey, the following data shall be collected:
- date and weather (wind, cloud cover, precipitation, temperature)
- number and location of Eastern Meadowlark and Bobolink observed (in UTM coordinates using NAD 83 projection where possible)
- distance and direction of each Eastern Meadowlark and Bobolink observation relative to the closest vertical structure, and nature of the vertical structure
- estimated location of probable Eastern Meadowlark and Bobolink nests
- estimated distance between each probable nest and closest vertical structure, and nature of the vertical structure.

12. Eastern Meadowlark and Bobolink Habitat Reporting.

(a) Prior to December 31 of each year of the Eastern Meadowlark and Bobolink habitat monitoring required under section 11, Glenarm shall submit an annual report to the MNR that includes:

i. a map indicating the number and location of transects and point counts laid out under clause 11 (a) of this permit;

ii. data collected under subclause 11 (a) iii of this permit;

iii. photographs of the Overall Benefit Area described in section 8 of this permit.

iv. activities undertaken during the year to fulfill clauses 8 (a) and (b) of this permit; and

v. activities undertaken during the year to fulfill clause 10 of this permit.

(b) Prior to December 31, 2018, Glenarm shall submit a final report which includes the information provided under clause 12 (a) of this permit for the duration of the monitoring period, and summarizes the effectiveness of the Measures with respect to the use of Overall Benefit Area by Eastern Meadowlark and Bobolink overall.

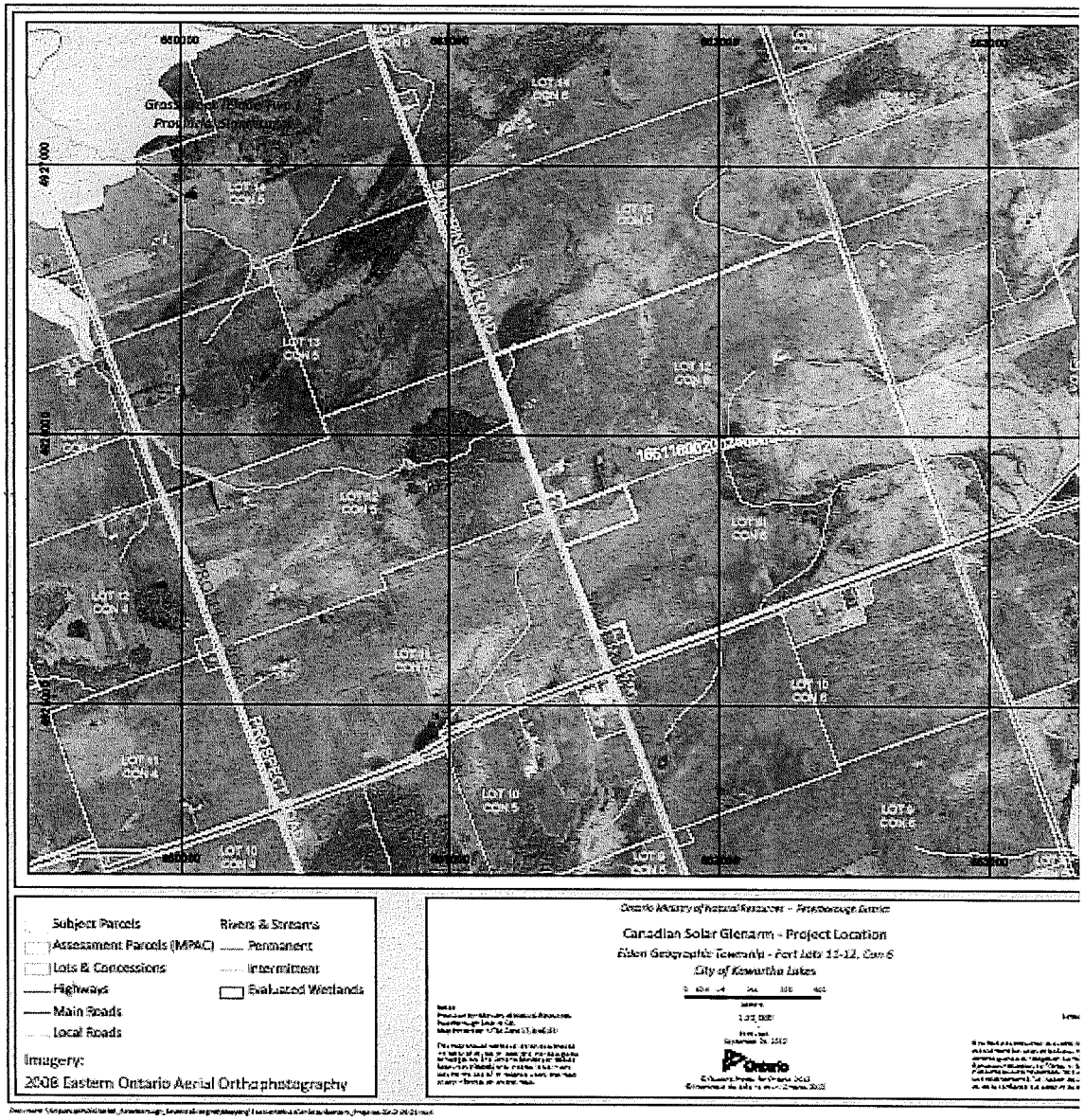
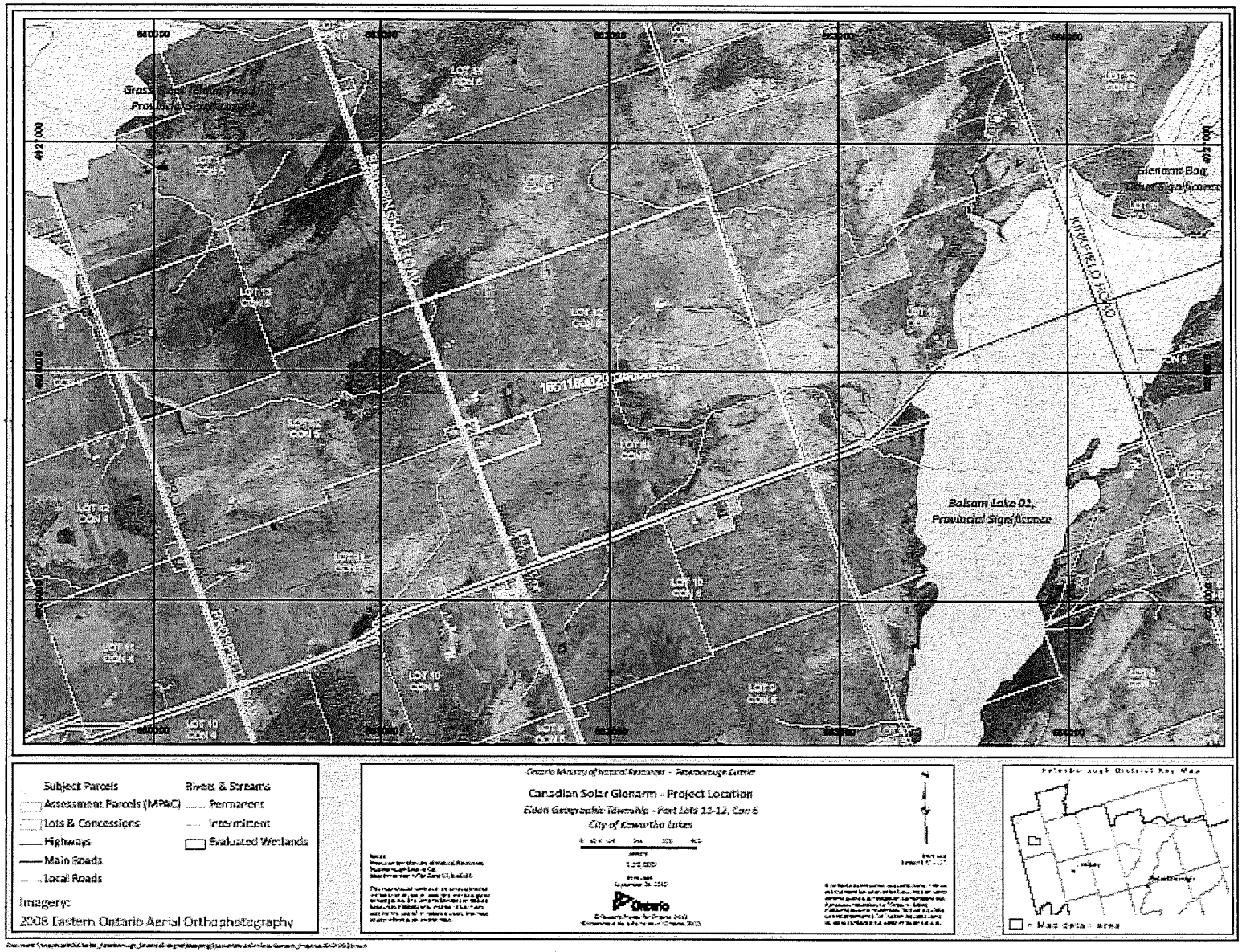
13. **Observation.** On reasonable notice Glenarm shall undertake reasonable steps to obtain permission for the MNR and others accompanying them to enter the Overall Benefit Area for the purposes of observing the Overall Benefit Area for the presence of Eastern Meadowlark and Bobolink and to gain knowledge of best practices to achieve an overall benefit to Eastern Meadowlark and Bobolink.

Pursuant to clause 17(2) (c) of the *Endangered Species Act, 2007*, I hereby issue this permit authorizing the activities described above, subject to the conditions set out herein.

David Orazietti
Minister of Natural Resources

June 4/13
Date of issuance

Appendix A – Canadian Solar - Glenarm Project Location Map



Appendix A – Canadian Solar - Glenarm Project Location Map